

**Abstract**

Separator for an electrochemical cell comprising a flexible perforate carrier having a ceramic coating on and in the carrier, the ceramic coating comprising from 75 to 99 parts by mass of  
5   oxidic particles selected from particles of  $\text{ZrO}_2$ ,  $\text{SiO}_2$  and  $\text{Al}_2\text{O}_3$  and comprising from 1 to 25 parts by mass of zeolite particles. These separators exhibit distinctly improved ion conductivity after filling with an electrolyte and are useful as separators in lithium ion batteries in particular.